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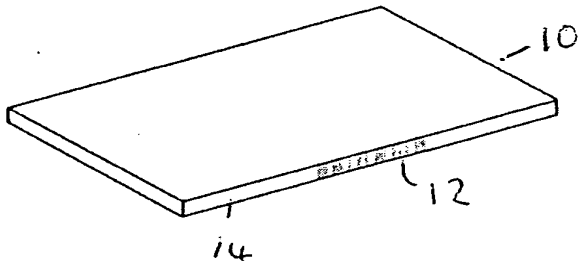


Fig. 1A

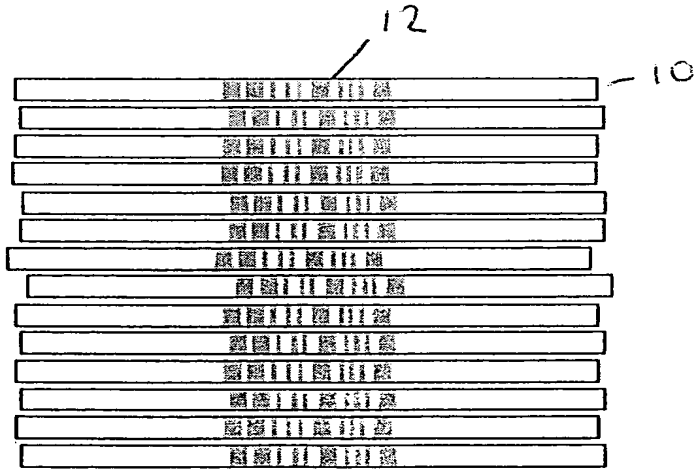


Fig. 1B

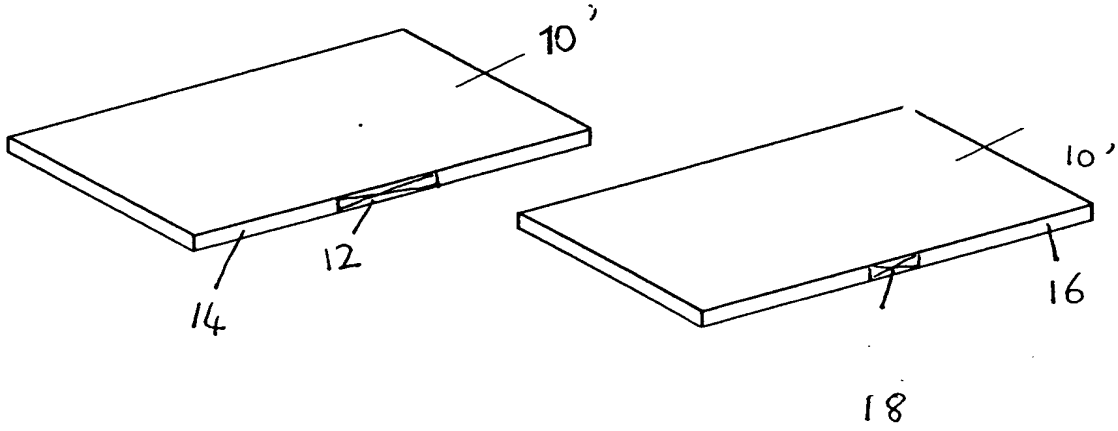


Fig. 2A

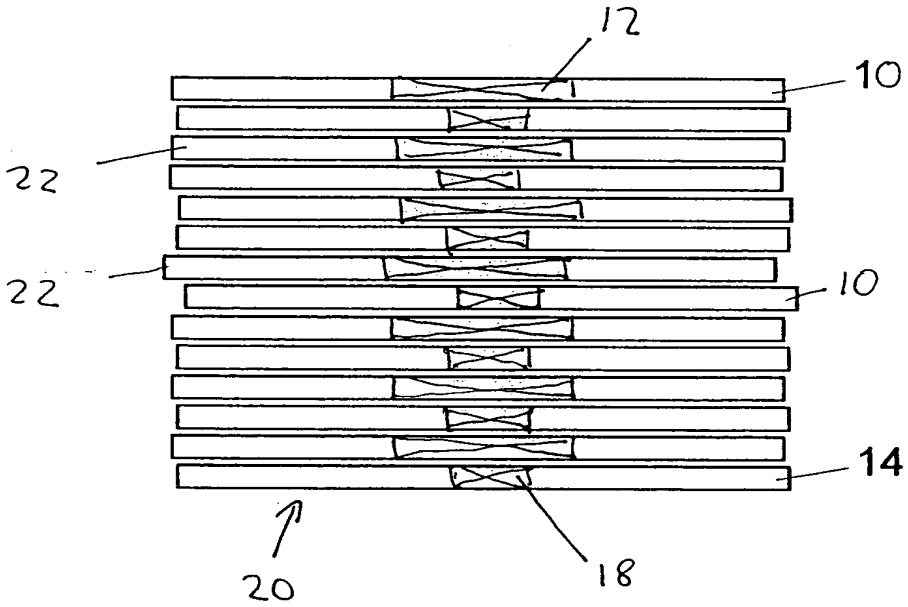


Fig. 2B

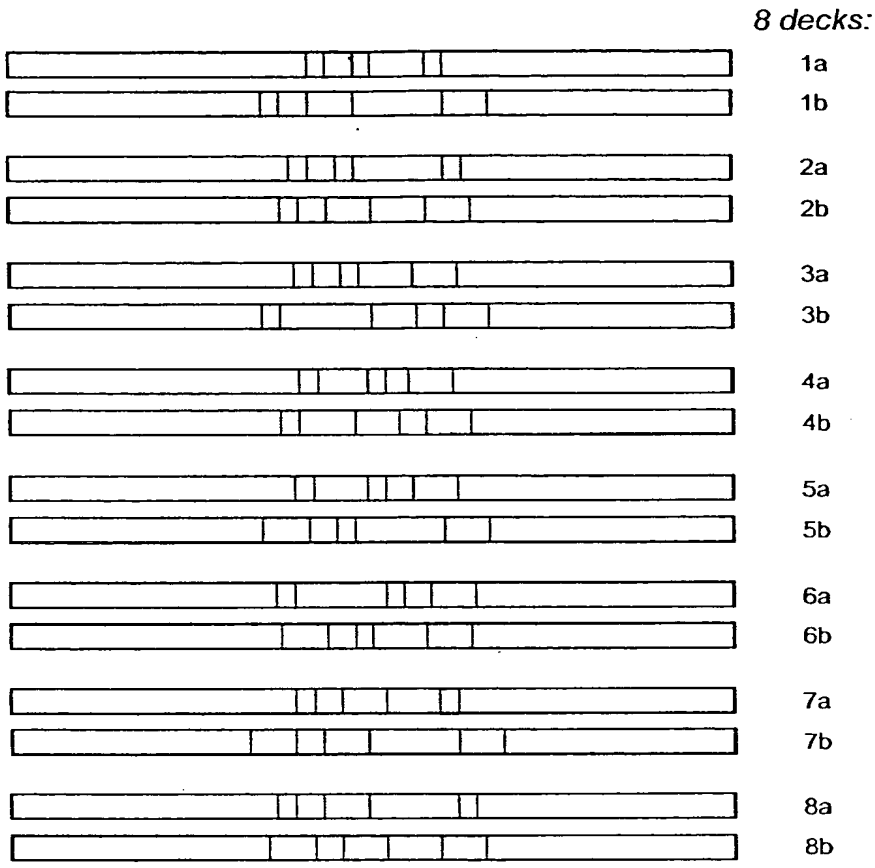
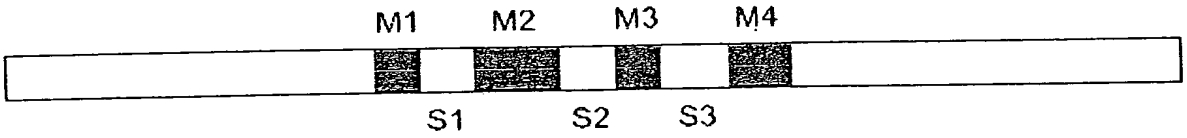


Fig. 3



M - Mark, S - Space

Deck #	*Deck id.*	**M1** width	**S1** width	**M2** width	**S2** width	**M3** width	**S3** width	**M4** width	*Pattern*
1	1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
2	2	0.8	0.8	0.8	0.8	0.8	0.8	1.6	
3	19998	1.6	1.6	1.6	4.0	4.0	4.0	2.4	
4	19999	1.6	1.6	1.6	4.0	4.0	4.0	3.2	
5	78124	4.0	4.0	4.0	4.0	4.0	4.0	3.2	
6	78125	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

* All dimensions are in mm.

Fig. 4

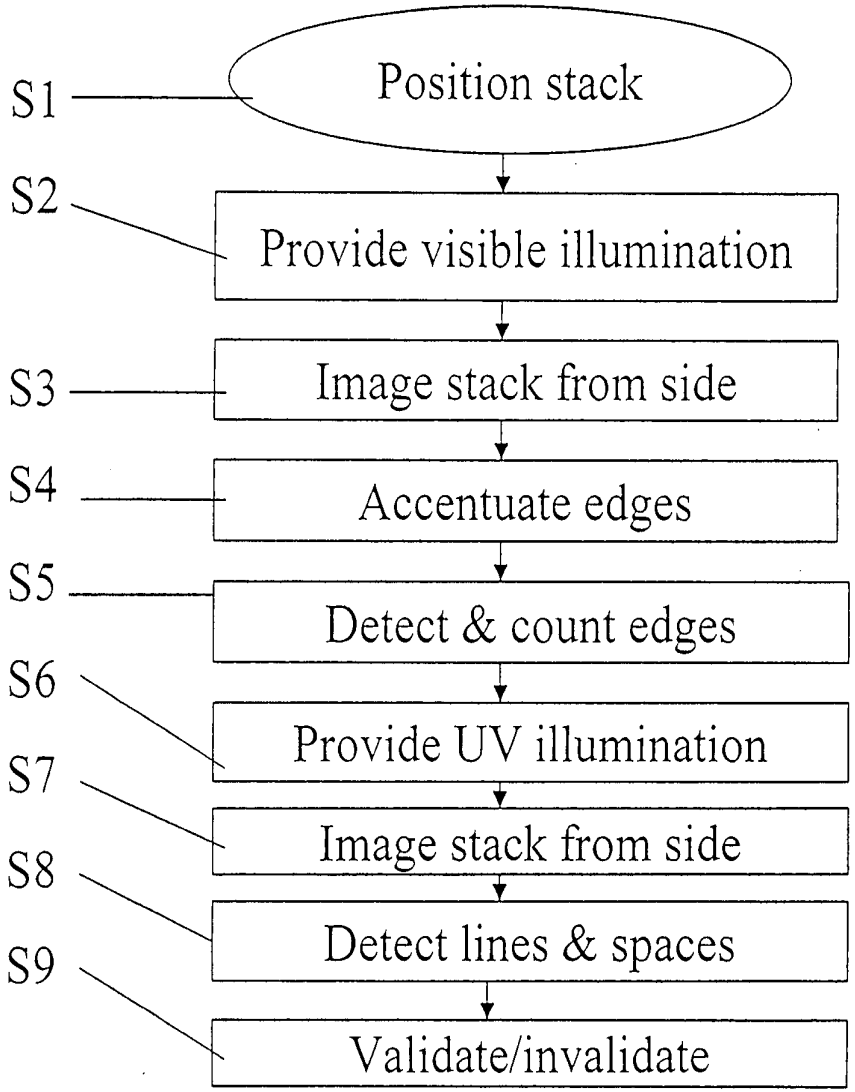

S1
Position stack
S2
Provide visible illumination
S3
Image stack from side
S4
Accentuate edges
S5
Detect & count edges
S6
Provide UV illumination
S7
Image stack from side
S8
Detect lines & spaces
S9
Validate/invalidate

Fig. 5

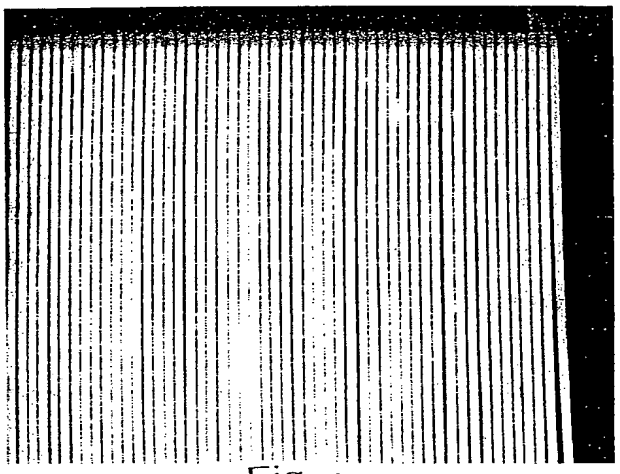


Fig. 6
Image aquired under
visible light
(Image aquisition module)

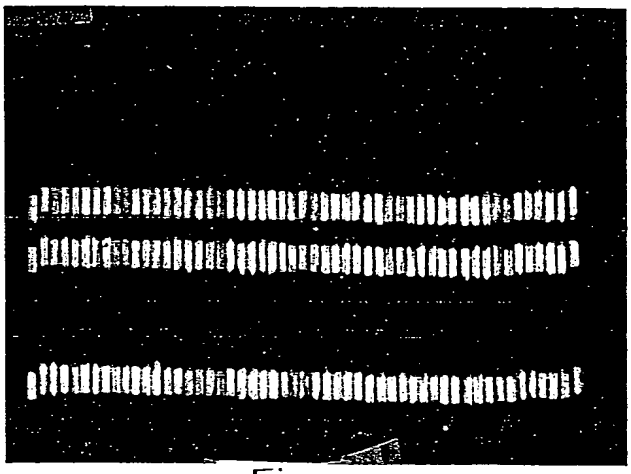


Fig. 8
Image aquired under
UV light
(Image aquisition module)

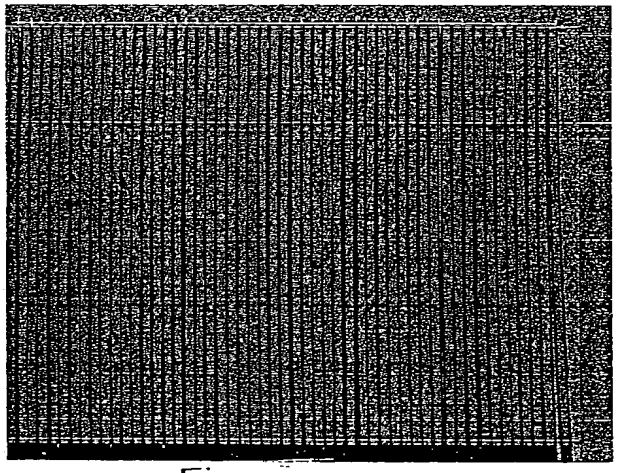


Fig. 7.
Card detection and marking
(Counting module)

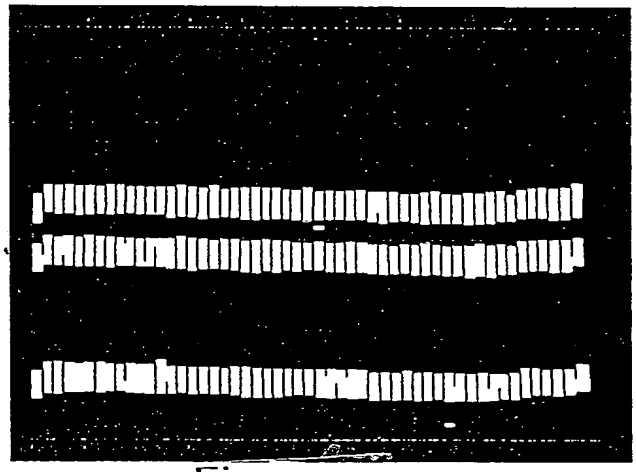


Fig. 9
Bars and spaces detection
(Validation module)

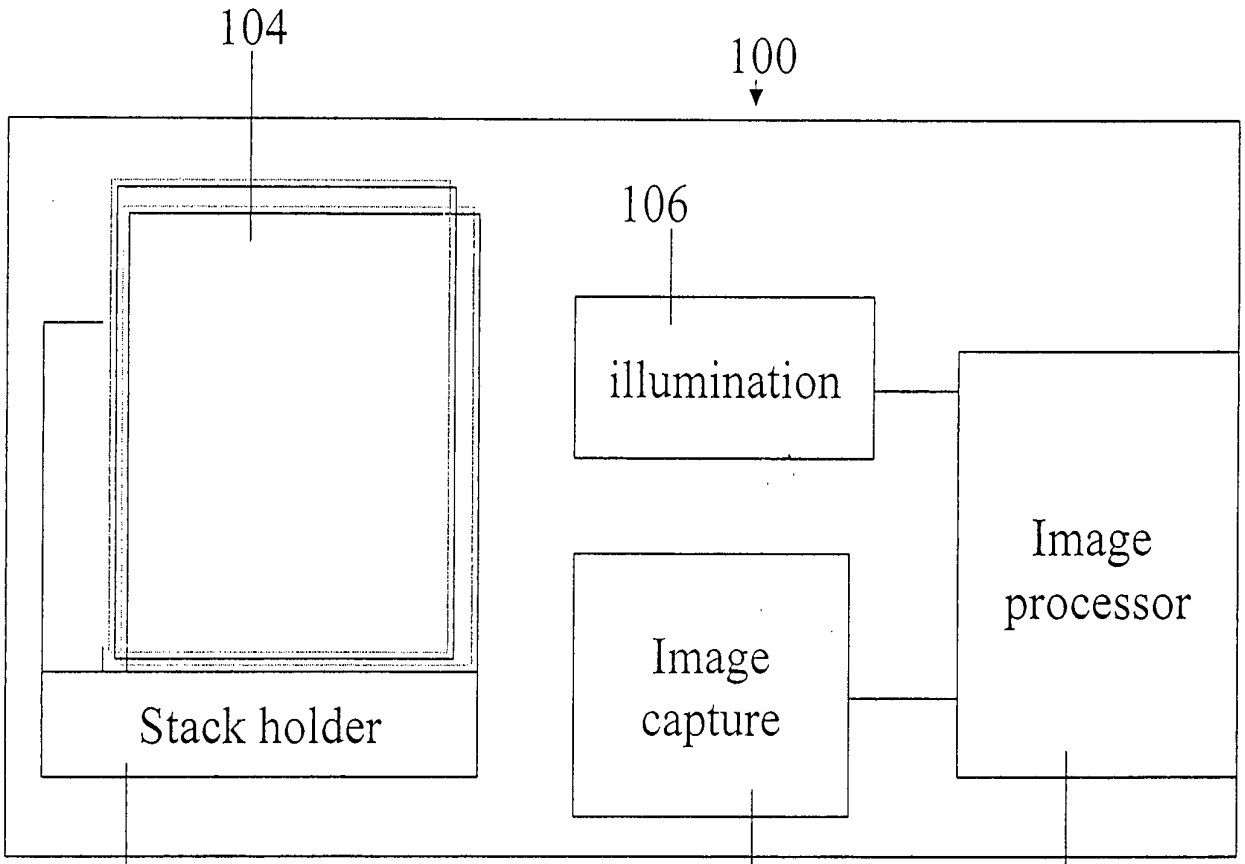

104
100
106
illumination
Image
processor
Image
capture
Stack holder
102
108
110

Fig. 10

Card Deck Validation Program

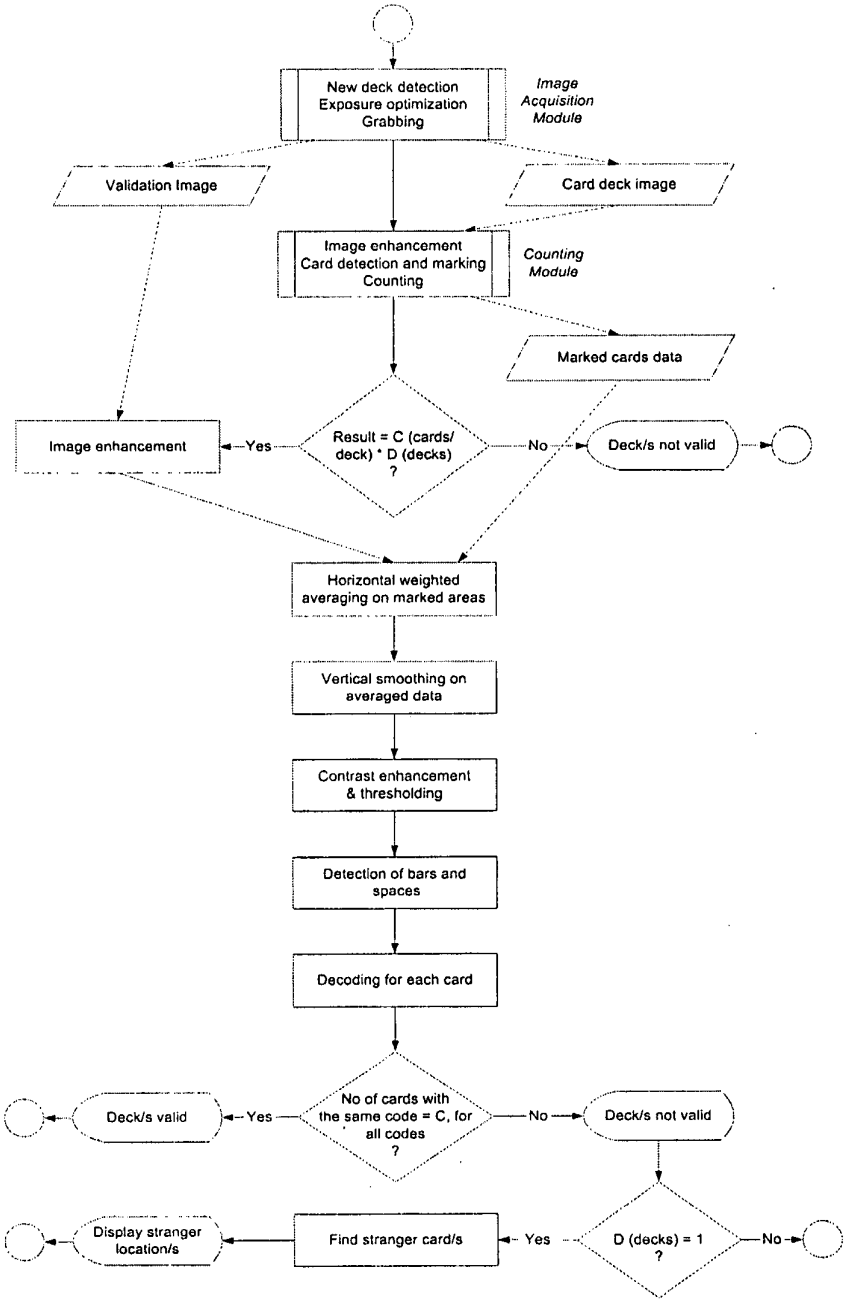


Fig. 11

Credit Card Validation Program

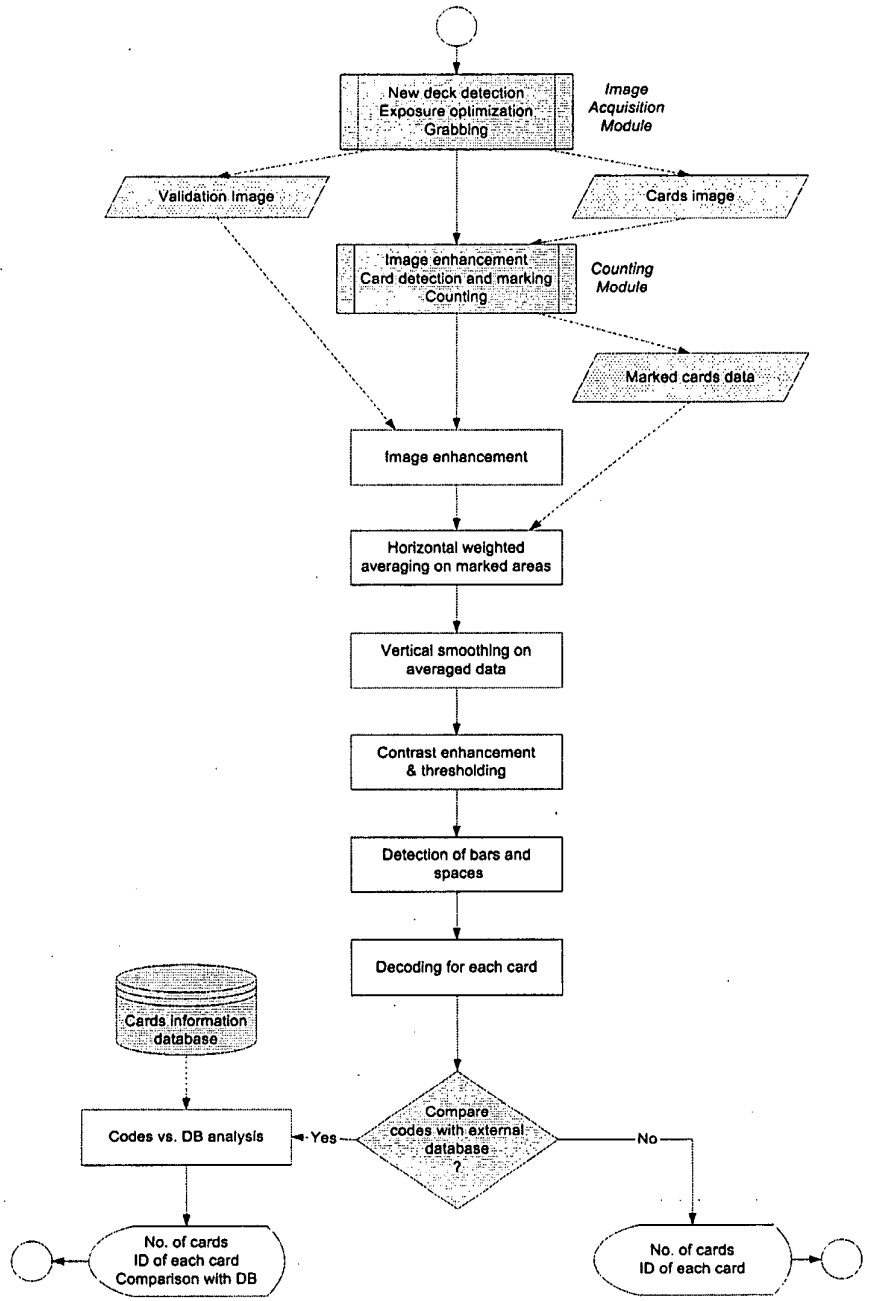


Fig. 12